

**REGULATION 8
ORGANIC COMPOUNDS
RULE 51
ADHESIVE AND SEALANT PRODUCTS
INDEX**

8-51-100 GENERAL

- 8-51-101 Description
- 8-51-111 Exemption, Aerosol Adhesive Spray Products
- 8-51-112 Exemption, Aerospace and Undersea-based Weapons Systems Components
- ~~8-51-113 Exemption, Consumer Adhesives~~
- 8-51-114 Exemption, Low Usage
- 8-51-115 Exemption, Low VOC Adhesive or Sealant Products
- 8-51-116 Exemption, Medical Equipment Manufacturing
- 8-51-117 Exemption, Research and Development Operations
- 8-51-118 Exemption, Specific Operations
- 8-51-119 Exemption, Tire Repair
- 8-51-120 Exemption, Prohibition of Sale
- ~~8-51-121 Exemption, ABS, CPVC, PVC, and Plastic Welding Cement Primers~~
- 8-51-122 Deleted January 7, 1998
- 8-51-123 Exemption, Small Container
- 8-51-124 Exemption, Consumer Contact Bond Adhesive
- 8-51-125 Limited Exemption, Low Usage of Contact Bond Adhesive
- 8-51-126 Limited Exemption, Facilities Using Contact Bond Adhesive Primarily For Special Substrates
- 8-51-127 Exemption, Large Tire Retreading
- 8-51-128 Exemption, Self-Curing Adhesives and Sealants With Reactive Diluents

8-51-200 DEFINITIONS

- 8-51-201 Adhesive
- 8-51-202 Adhesive Primer
- 8-51-203 Adhesive Product
- 8-51-204 Aerosol Spray Adhesive
- 8-51-205 Aerospace Component
- 8-51-206 Approved Emission Control System
- 8-51-207 Architectural
- 8-51-208 Drywall Installation
- 8-51-209 Floor Covering Installation
- ~~8-51-210 Household Adhesive Product~~
- 8-51-211 Medical Equipment Manufacturing
- 8-51-212 Multipurpose Construction
- 8-51-213 Panel Installation
- 8-51-214 Plastic
- 8-51-215 Deleted January 7, 1998
- 8-51-216 Porous Material
- 8-51-217 Roadways
- 8-51-218 Sealant Products
- 8-51-219 Single-Ply Roof Material Installation/Repair
- 8-51-220 Solvent
- 8-51-221 Deleted November 16, 1994
- 8-51-222 Structural Glazing
- 8-51-223 Subfloor Installation
- 8-51-224 Tire Repair

8-51-225	Undersea-based Weapons Systems Components
8-51-226	Volatile Organic Compound (VOC) Content
8-51-227	Deleted November 16, 1994
8-51-228	Wood Flooring Installation
8-51-229	ABS Welding Adhesive
8-51-230	Automotive Glass Primer
8-51-231	Computer Diskette Jacket Manufacturing
8-51-232	CPVC and PVC Welding Adhesive
8-51-233	Key System Operating Parameter
8-51-234	Low Solids Adhesive, Sealant, and Primer
8-51-235	Marine Deck Sealant
8-51-236	Nonmembrane Roof Installation/Repair
8-51-237	Outdoor Floor Covering Installation
8-51-238	Rubber
8-51-239	Thin Metal Laminating
8-51-240	Tire Retread
8-51-241	<u>Plastic Welding Adhesive</u>
8-51-242	Contact Bond Adhesive
8-51-243	Waterproof Resorcinol Glue
8-51-244	Pavement Marking Tape Primer
8-51-245	Metal to Elastomer Molding or Casting Adhesive
8-51-246	PVC Welding Sealant
8-51-247	Self-Curing Adhesives and Sealants With Reactive Diluents
8-51-248	Reactive Diluent
8-51-249	Contact Bond Adhesive - Special Substrates
8-51-250	Bituminous Materials
8-51-251	Modified Bitumen Primer
8-51-250	<u>Ceramic Tile Installation</u>
8-51-251	<u>Cove Base Installation</u>
8-51-252	<u>PVC Welding</u>
8-51-253	<u>Perimeter Bonded Sheet Vinyl Flooring Installation</u>
8-51-254	<u>Top and Trim Installation</u>
8-51-255	<u>Immersible Product Manufacturing</u>
8-51-256	<u>Rubber Vulcanization Bonding</u>
8-51-257	<u>Pre-formed Rubber Product</u>

8-51-300 STANDARDS

8-51-301	Adhesive Product, Application Limits
8-51-302	Adhesive Product, Substrate Limits
8-51-303	Aerosol Adhesive Spray Product Limit
8-51-304	Sealant Product Limits
8-51-305	Approved Emission Control System
8-51-306	Prohibition of Specification
8-51-307	Prohibition of Sale
8-51-308	<u>Limits for Pressurized Containers</u>
8-51-320	Solvent Evaporative Loss Minimization

8-51-400 ADMINISTRATIVE REQUIREMENTS

8-51-401	Date of Manufacture
8-51-402	Labeling Requirement
8-51-403	Deleted January 7, 1998
8-51-404	Deleted November 16, 1994

8-51-500 MONITORING AND RECORDS

8-51-501	Stationary Source, Recordkeeping Requirement
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8-51-502 Alternative Recordkeeping Requirements
8-51-502~~3~~ Approved Emission Control System, Recordkeeping Requirement
8-51-503~~4~~ Burden of Proof

8-51-600 MANUAL OF PROCEDURES

8-51-601 Analysis of Samples
8-51-602 Determination of Control and Collection Efficiency
8-51-603 Analysis of Plastic Welding Cements

**REGULATION 8
ORGANIC COMPOUNDS
RULE 51
ADHESIVE AND SEALANT PRODUCTS**

(Adopted November 18, 1992)

8-51-100 GENERAL

8-51-101 Description: The purpose of this Rule is to limit the emissions of organic compounds from adhesive and sealant products. Any operation determined to be exempt from the provisions of this Rule shall be subject to the provisions of Rule 4, if not already subject to another Rule of Regulation 8.

8-51-111 Exemption, Aerosol Adhesive Spray Products: ~~Until January 1, 2000, the~~ The provisions of this Rule shall not apply to aerosol adhesive ~~spray~~ products as defined in Section 8-51-204.

(Amended November 16, 1994, January 7, 1998)

8-51-112 Exemption, Aerospace and Undersea-based Weapons Systems Components: The provisions of this Rule shall not apply to the use of adhesive or sealant products in the manufacture or repair of aerospace or undersea-based weapons systems components.

~~**8-51-113 Exemption, Consumer Adhesives:** The requirements of this Rule shall not apply to adhesives subject to the California Air Resources Board consumer products regulation found in Title 17 of the California Code of Regulations, beginning at Section 94507.~~ (Amended June 5, 1996, January 7, 1998)

8-51-114 Exemption, Low Usage: The requirements of Section 8-51-302 shall not apply to the combined use of non-complying adhesive products at a facility in a volume of less than 75.7 liters (20 gallons) in any calendar year. (Amended June 5, 1996)

8-51-115 Exemption, Low VOC Adhesive or Sealant Products: The requirements of this Rule shall not apply to any adhesive or sealant product with a VOC content, as defined in Section 8-51-226, of less than 20 grams per liter of VOC.

(Amended January 7, 1998)

8-51-116 Exemption, Medical Equipment Manufacturing: The requirements of this Rule shall not apply to the use of adhesive products in the manufacture of medical equipment. (Amended June 5, 1996)

8-51-117 Exemption, Research and Development Operations: Except for Section 8-51-501, the provisions of this Rule shall not apply to the testing and evaluation of adhesive or sealant products in research and development laboratories, quality assurance laboratories, or analytical laboratories, or to research and development facilities which produce only non-commercial products solely for research and development purposes. (Amended November 16, 1994)

8-51-118 Exemption, Specific Operations: The requirements of this Rule shall not apply to the use of adhesives in the following operations.

118.1 Adhesives and sealants applied in Metal, Can and Coil Operations subject to Regulation 8, Rule 11.

118.2 Adhesives applied to Paper, Fabric and Film subject to Regulation 8, Rule 12.

118.3 Adhesive and sealant products applied in Light and Medium Duty Motor Vehicle Assembly Plants subject to the requirements of Regulation 8, Rule 13.

118.4 Adhesives applied in Graphic Arts Operations subject to the requirements of Regulation 8, Rule 20.

118.5 Adhesives applied in Flat Wood Paneling Operations subject to the requirements of Regulation 8, Rule 23.

8-51-119 Exemption, Tire Repair: The requirements of this Rule shall not apply to adhesive or sealant products used in tire repair provided the label conspicuously states "For Tire Repair Use Only."

8-51-120 Exemption, Prohibition of Sale: The requirements of Section 8-51-307 shall not apply to the following:

- 120.1 Adhesive and sealant products shipped, supplied or sold to persons outside the District for use outside the District.
- 120.2 Adhesive or sealant products sold to any person who complies with the requirements of Section 8-51-305.
- 120.3 Any manufacturer of adhesive or sealant products, provided the manufacturer has provided the maximum VOC content and category information for the product and the product was not sold directly to a user or a sales outlet located in the District, or the product was sold to an independent distributor located in the District that is not a subsidiary of, or under the direct control of the manufacturer.
- 120.4 The VOC limits for "Contact Bond Adhesives" in Section 8-51-301.4, provided, however, that no person shall sell or offer for sale any contact bond adhesive with a VOC content that exceeds the VOC limits in that same section for "Contact Bond Adhesives-Special Substrates 540 grams per liter."

(Adopted November 16, 1994, amended January 7, 1998)

~~**8-51-121 Exemption, ABS, CPVC, PVC and Plastic Welding Cement Primers:** The requirements of this rule shall not apply to adhesive primer used in conjunction with ABS, CPVC, PVC, and Plastic Welding Cement applications.~~

~~(Adopted November 16, 1994)~~

8-51-122 Deleted January 7, 1998

8-51-123 Exemption, Small Container: The requirements of this Rule shall not apply to any adhesive or sealant product, except plastic welding adhesive and plastic welding adhesive primer, sold in non-reusable packages units of product, less packaging, that weigh one pound or less or that contain 8-16 fluid ounces or less.

(Adopted June 5, 1996)

8-51-124 Exemption, Consumer Contact Bond Adhesive: The requirements of Section 8-51-301.4 shall not apply to contact bond adhesives that are subject to the Consumer Product Safety Commission regulations in 16 C.F.R. Part 1302, that have a flash point greater than 20°F. as determined pursuant to those regulations, that are sold in packages that contain 3.79 liters (1 gallon) or less, and that are used at a home, a construction site, or at any location other than in a facility, as defined in Regulation 1.

(Adopted June 5, 1996, amended January 7, 1998)

8-51-125 Limited Exemption, Low Usage of Contact Bond Adhesive: ~~From July 1, 1998 through December 31, 1999, the requirements of Section 8-51-301.4 shall not apply to the first 37.9 liters (10 gallons) of contact bond adhesive used at a facility in any month that uses no more than 55 gallons of contact bond adhesive in a twelve month period, provided that the VOC content, as defined in Section 8-51-226, of the adhesive used does not exceed 540 grams per liter. Where the facility's adhesive and sealant emissions are 15 pounds per day or more, this exemption shall be limited to 55 gallons in a twelve month period.~~

~~(Adopted January 7, 1998)~~

8-51-126 Limited Exemption, Facilities Using Contact Bond Adhesive Primarily for Special Substrates: Where 80% or more of the annual contact bond adhesive use at a single facility meets the definition in Section 8-51-249 of "Contact Bond Adhesive - Special Substrates," the applicable limit in Section 8-51-301.4 shall apply to all contact bond adhesive usage at the facility.

(Adopted January 7, 1998)

8-51-127 Exemption, Large Tire Retreading: The requirements of Section 8-51-301 shall not apply to the use of tire retread adhesive in retreading off-the-road and industrial tires that are rated or used for non-highway service and have a minimum nominal rim diameter of 20 inches.

(Adopted January 7, 1998)

8-51-128 Exemption, Self-Curing Adhesives and Sealants With Reactive Diluents: The requirements of this rule shall not apply to self-curing adhesives and sealants with reactive diluents.

(Adopted January 7, 1998)

8-51-200 DEFINITIONS

8-51-201 Adhesive: Any material which is applied for the primary purpose of bonding two surfaces together by surface attachment.

(Amended June 5, 1996)

- 8-51-202 Adhesive Primer:** Any material which is applied to a substrate prior to the application of an adhesive to provide a bonding surface.
- 8-51-203 Adhesive Product:** For the purposes of this Rule, an adhesive product includes, but is not limited to, the following products: adhesives, glues, cements, mastic, adhesive primers.
- 8-51-204 Aerosol Spray Adhesive:** ~~A mixture of rubber, resin, liquids, and gaseous solvents and propellants.~~ An adhesive subject to the California Air Resources Board consumer products regulation found in Title 17 of the California Code of Regulations, beginning at Section 94507, that is packaged as an aerosol product in a disposable container in which the spray mechanism is permanently housed in a nonrefillable can designed for hand-held application without the need for ancillary hoses or spray equipment.
- 8-51-205 Aerospace Component:** For the purposes of this Rule, the fabricated part, assembly of parts or completed unit of any aircraft, helicopter, missile, or space vehicle, including passenger safety equipment.
- 8-51-206 Approved Emission Control System:** A system for reducing emissions of volatile organic compounds to the atmosphere, consisting of a control device and a collection system that meets the requirements of Regulation 2, Rule 1, and achieves the overall abatement efficiency specified in the applicable standards section at all times during operation of the equipment being controlled.
- (Amended November 16, 1994)
- 8-51-207 Architectural:** Stationary structures and their appurtenances, including mobile homes. Appurtenances to an architectural structure include but are not limited to: hand railings, cabinets, bathroom and kitchen fixtures, fences, rain gutters and down spouts, and windows.
- 8-51-208 Drywall Installation:** The installation of gypsum drywall to studs or solid surfaces.
- 8-51-209 Indoor Floor Covering Installation:** The installation of wood flooring, indoor carpet, ~~ceramic tile, resilient tile, vinyl tile, vinyl bath-backed carpet, resilient sheet and roll, or artificial grass.~~ (Amended November 16, 1994)
- 8-51-210 Household Adhesive Product:** ~~Any adhesive product as defined in the California Air Resources Board consumer products regulation found in Title 17 of the California Code of Regulations, beginning at Section 94507. Household adhesive products do not include units of products, less packaging, which weigh more than one pound or contain more than 16 fluid ounces.~~ (Amended June 5, 1996)
- 8-51-211 Medical Equipment Manufacturing:** The manufacture of medical devices, such as, but not limited to, catheters, heart valves, blood cardioplegia machines, tracheostomy tubes, blood oxygenators, and cardiatory reservoirs.
- 8-51-212 Multipurpose Construction:** The installation or repair of various construction materials using adhesives, including but not limited to drywall, subfloor, panel, ~~ceve base,~~ fiberglass reinforced plastic (FRP), ceiling tile, ~~ceramic tile,~~ acoustical tile.
- (Amended November 16, 1994)
- 8-51-213 Panel Installation:** The installation of plywood, predecorated hardboard, tileboard, fiberglass reinforced plastic, and similar predecorated or nondecorated panels to studs or solid surfaces.
- 8-51-214 Plastic:** Synthetic materials chemically formed by the polymerization of organic (carbon-based) substances.
- 8-51-215 Deleted January 7, 1998**
- 8-51-216 Porous Material:** A material whose surface is permeable to liquids; such materials include but are not limited to foam, paper, corrugated paperboard, stone and wood.
- (Amended November 16, 1994)
- 8-51-217 Roadways:** Public streets, highways, and other surfaces, including but not limited to curbs, berms, driveways, and parking lots.
- 8-51-218 Sealant Products:** Any material with adhesive properties that is used primarily to fill, seal, waterproof, or weatherproof gaps or joints between two surfaces. Sealant products include sealant primers and caulk.
- 8-51-219 Single-Ply Roof Material Installation/Repair:** The installation or repair of prefabricated single-ply flexible roofing membrane that is field applied using just one layer of membrane material. The membrane itself may be manufactured from

several layers of material. Installation includes the use of adhesives and adhesive primers provided the containers are labeled exclusively for such use.

8-51-220 Solvent: Organic compounds which are used as diluents, thinners, dissolvers, viscosity reducers, cleaning agents, or for similar uses.

8-51-221 Deleted November 16, 1994

8-51-222 Structural Glazing: Use of an adhesive/sealant to adhere glass, ceramic, metal, stone, or composite panels to exterior building frames.

8-51-223 Subfloor Installation: The installation of subflooring material, typically plywood, over flooring joists. Subflooring is covered by a finish surface material.

8-51-224 Tire Repair: The repair of a hole, tear, fissure, or blemish in a tire casing by grinding and gouging, applying adhesive or sealant product and filling the hole or crevice with rubber.

8-51-225 Undersea-based Weapons Systems Components: The fabricated part, assembly of parts, or completed units of any portion of the missile launching system used on undersea ships.

8-51-226 Volatile Organic Compound (VOC) Content: All organic compounds (excluding methane, carbon monoxide, carbon dioxide, carbonic acid, metallic carbides of carbonates, and ammonium carbonate) which would be emitted during use, application, curing, or drying of an adhesive or sealant product.

226.1 For the purposes of calculating the VOC content of an adhesive, sealant, or primer, water and the following compounds:

acetone
parachlorobenzotrifluoride (PCBTF)
cyclic, branched or linear, fully methylated siloxanes (VMS)
difluoroethane (HFC-152a)

shall not be considered part of the product.

~~226.2 For the purposes of calculating the VOC content of an aerosol adhesive or sealant product, the following compounds:~~

~~difluoroethane (HFC-152a)
acetone
parachlorobenzotrifluoride (PCBTF)
cyclic, branched or linear, fully methylated siloxanes (VMS)~~

~~shall not be considered part of the VOC content of the adhesive or sealant product.~~

226.32 For the purposes of calculating the VOC content of low solids adhesives, sealants and primers, as defined in Section 8-51-234, any water shall be considered to be part of the product. The following compounds:

acetone
parachlorobenzotrifluoride (PCBTF)
cyclic, branched or linear, fully methylated siloxanes (VMS)

shall not be considered part of the VOC content of the product.

(Amended 6/2/93; 1/19/94; 11/16/94; 12/20/95, 1/7/98)

8-51-227 Deleted November 16, 1994

8-51-228 Wood Flooring Installation: The installation of a wood floor surface, including but not limited to, parquet tiles, planks, or strip-wood.

8-51-229 ABS Welding-Adhesive: Any adhesive that is intended by the manufacturer to The welding of acrylonitrile styrene (ABS) plastic pipe using a plastic welding adhesive.

(Adopted November 16, 1994)

8-51-230 Automotive Glass Primer: Any adhesive primer that is applied to automotive glass prior to installation with an adhesive/sealant that improves adhesion to the pinch weld and blocks ultraviolet light.

(Adopted November 16, 1994)

8-51-231 Computer Diskette Jacket Manufacturing: The manufacture of computer diskettes where the fold-over flaps are glued to the body of a vinyl jacket.

(Adopted November 16, 1994)

8-51-232 CPVC and PVC Welding-Adhesive: Any adhesive intended by the manufacturer to The welding of chlorinated polyvinyl chloride (CPVC) or polyvinyl chloride (PVC) plastic pipe using a plastic welding adhesive.

(Adopted November 16, 1994)

- 8-51-233 Key System Operating Parameter:** An approved emission control system operating parameter, such as temperature, flow rate or pressure, that ensures operation of the emission control system within manufacturer specifications and compliance with the standard in Sections 8-51-305. (Adopted November 16, 1994)
- 8-51-234 Low Solids Adhesive, Sealant, and Primer:** Any adhesive, sealant, or primer that contains less than 120 grams of solids per liter of material. (Adopted November 16, 1994)
- 8-51-235 Marine Deck Sealant:** A sealant that is used to seal gaps on wooden decks of marine vessels. (Adopted November 16, 1994)
- 8-51-236 Nonmembrane Roof Installation/Repair:** Any product that is intended for the installation or repair of roofs and that is not intended for the installation of prefabricated single-ply roofing membrane, including but not limited to plastic or asphalt roof cement, asphalt roof coatings, or cold application cement. (Adopted November 16, 1994)
- 8-51-237 Outdoor Floor Covering Installation:** The installation of floor covering, except ceramic tile, that is not in an enclosure and is exposed to ambient weather conditions during normal use. (Adopted November 16, 1994)
- 8-51-238 Rubber:** Any natural or man-made rubber substrate, including but not limited to: styrene-butadiene (SBR), polychloroprene (neoprene), butyl rubber, nitrile rubber, chlorosulfonated polyethylene (CSM), urethane, and ethylene propylene diene terpolymer (EPDM). (Adopted November 16, 1994)
- 8-51-239 Thin Metal Laminating:** The process of bonding multiple layers of metal to metal or metal to plastic in the production of electronic or magnetic components in which the thickness of the bond line(s) is less than 0.25 mils. (Adopted November 16, 1994)
- 8-51-240 Tire Retread:** The process where adhesives are applied to the back of precure tread rubber, the casing and cushion rubber or to seal buffed tire casings to prevent oxidation while the tire is being prepared for a new tread. (Adopted November 16, 1994)
- 8-51-241 Plastic Welding Adhesive:** Any adhesive, including ABS, CPVC, and PVC welding adhesive, which is used to dissolve the surface of plastic to form a bond between mating surfaces. (Adopted November 16, 1994)
- 8-51-242 Contact Bond Adhesive:** An adhesive that forms an instantaneous, non-repositionable bond when substrates, on which the adhesive was applied and allowed to dry, are brought together using momentary pressure. (Adopted June 5, 1996)
- 8-51-243 Waterproof Resorcinol Glue:** A two-part, resorcinol-resin-based adhesive designed for applications where the bond line must be resistant to conditions of continuous immersion in fresh or salt water. (Adopted June 5, 1996)
- 8-51-244 Pavement Marking Tape Primer:** An adhesive primer designed for application to pavement prior to the application of adhesive-backed pavement marking tape. (Adopted June 5, 1996)
- ~~**8-51-245 Metal to Elastomer Molding or Casting Adhesive:** An adhesive designed to bond metal to rubber or to urethane elastomers through a heater molding or casting process in order to fabricate products such as rollers and wheels. (Adopted June 5, 1996)~~
- ~~**8-51-246 PVC Welding Sealant:** A sealant designed to adhere to polyvinyl chloride (PVC) by dissolving its surface and to fill or seal gaps between PVC surfaces or between PVC and other surfaces. (Adopted June 5, 1996)~~
- 8-51-247 Self-Curing Adhesives and Sealants with Reactive Diluents:** A cyanoacrylate or silicone-based adhesive or sealant with a reactive diluent content of at least 95% by weight. (Adopted January 7, 1998)
- 8-51-248 Reactive Diluent:** A liquid reactant that is part of an adhesive or sealant prior to cure and that reacts to become part of the solid adhesive or sealant during cure. (Adopted January 7, 1998)
- 8-51-249 Contact Bond Adhesive - Special Substrates:** A contact bond adhesive that is used for the bonding of nonporous substrates to each other; the bonding of decorative laminate in postforming operations; the bonding of decorative laminate to metal, or melamine-covered board, or the bonding of when used to bond any

substrate to one of the following substrates: metal, rubber, flexible vinyl, rigid plastic, or wood veneer not exceeding 1/16" in thickness, ~~or melamine covered board.~~

(Adopted January 7, 1998)

~~8-51-250 **Bituminous Materials:** Any of various asphaltic mixtures that consist primarily of hydrocarbons, that are obtained from natural deposits of asphalt or as residues from the distillation of petroleum or coal, and that are soluble in carbon disulfide.~~

~~(Adopted January 7, 1998)~~

~~8-51-251 **Modified Bitumen Primer:** A mixture of bituminous materials and solvent used to prepare a surface for the application of adhesive, plastic roofing cement, or flashing cement during the installation or repair of modified bitumen roofing.~~

~~(Adopted January 7, 1998)~~

8-51-250 Ceramic Tile Installation: The installation of ceramic tiles.

8-51-251 Cove Base Installation: The installation of cove base (or wall base), which is generally made of vinyl or rubber, on a wall or vertical surface at floor level.

8-51-252 PVC Welding: The welding of polyvinyl chloride (PVC) plastic using a plastic welding adhesive.

8-51-253 Perimeter Bonded Sheet Vinyl Flooring Installation: The installation of sheet flooring with vinyl backing onto a nonporous substrate using an adhesive designed to be applied only to a strip of up to four inches wide around the perimeter of the sheet flooring.

8-51-254 Top and Trim Installation: The installation of automotive, marine, or aeronautical trim, including, but not limited to, headliners, vinyl tops, vinyl trim, dash covering, door covering, floor covering, panel covering, and upholstery.

8-51-255 Immersible Product Manufacturing: The manufacture of products intended for immersion in liquids, including wetsuits, rubber fuel bladders, inflatable boats, and life preservers.

8-51-256 Rubber Vulcanization Bonding: The bonding of rubber to metal, rubber, or polyester or nylon fabrics during one or more of the following vulcanization processes: (1) molded vulcanization - the application of heat and pressure to uncured rubber in a mold; (2) sheet-applied vulcanization - the application of heat after rubber stock sheets have been adhered to the walls of tanks, tankers, elbow joints, protective earthquake building pads, or rail cars; or the application of heat after one or more layers of rubber stock sheets have been built up to form a rubber product; (3) cold vulcanization - the chemical reaction of an adhesive with rubber stock sheets that are adhered to earthmoving equipment, other high impact/abrasion devices, or industrial belting devices, without the application of heat or pressure.

8-51-257 Pre-formed Rubber Product: Any rubber product that has undergone a vulcanization process and is in its final state for further use and is not intended to be further vulcanized.

8-51-300 STANDARDS

8-51-301 Adhesive Product, Application Limits: Except as provided in Section 8-51-305, a person shall not use in the following applications any adhesive product with a VOC content, as defined in Section 8-51-226, that exceeds the following VOC limits (expressed as grams of VOC per liter):

301.1 Architectural:

Indoor Floor Covering Installation	150
Multipurpose Construction	200
Nonmembrane Roof Installation/Repair	300
Outdoor Floor Covering Installation	250
Single-Ply Roof Material Installation/Repair	250
Structural Glazing	100
Ceramic Tile Installation	130
Cove Base Installation	150
Perimeter bonded sheet vinyl flooring installation	660

301.2 Specialty:

Computer Diskette Jacket Manufacturing	850
ABS Welding Adhesive	400
CPVC Welding Adhesive	490
PVC Welding Adhesive	510
Other Plastic Cement-Welding Adhesives	500
Thin Metal Laminating	780
Tire Retread	100
Metal to Elastomer Molding or Casting	850
<u>Rubber Vulcanization Bonding</u>	<u>850</u>
Waterproof Resorcinol Glue	170
<u>Immersible Product Manufacturing</u>	<u>650</u>
<u>Top and Trim Installation</u>	<u>540</u>

301.3 Adhesive Primers:

Automotive Glass Primer	700
Pavement Marking Tape Primer	550 <u>150</u>
Modified Bitumen Primer	500
<u>Plastic Welding Primer</u>	<u>650</u>
Other	250

301.4 Contact Bond Adhesive:

	Effective 6/5/96	Effective 7/1/98	Effective 1/1/00
Contact Bond Adhesive	540	400	250
Contact Bond Adhesive - Special Substrates	540	540	400

(Amended November 16, 1994; June 5, 1996, January 7, 1998)

8-51-302 Adhesive Product, Substrate Limits: Except as provided in Sections 8-51-301, 303, and 305, a person shall not use with the following substrates or substrate combinations any adhesive product with a VOC content, as defined in Section 8-51-226, that exceeds the following limits (expressed as grams of VOC per liter):

Metal	30
Porous Materials	450 <u>120</u>
Wood	450 <u>120</u>
<u>Pre-formed Rubber Products</u>	650 <u>250</u>
All Other Substrates	250

If an adhesive product is used to bond two different substrates from the table above, the limit for the substrate with the highest VOC content shall apply.

(Amended November 16, 1994; June 5, 1996, January 7, 1998)

~~**8-51-303 Aerosol Adhesive Spray Product Limit:** Effective January 1, 2000, a person shall not use any aerosol adhesive spray product unless the VOC content, including the propellant, does not exceed 75 percent by weight.~~

~~(Adopted November 16, 1994, amended January 7, 1998)~~

8-51-304 Sealant Product Limits: Except as provided in Section 8-51-305, a person shall not use in the following applications any sealant product with a VOC content, as defined in Section 8-51-226, that exceeds the following limits (expressed as grams of VOC per liter):

Sealant:

Architectural	250
Marine Deck	760
Roadways	250
Single Ply Roof Material Installation/Repair	450
Nonmembrane Roof Installation/Repair	300
PVC Welding	480
Other	420

Sealant Primer:

Architectural - Nonporous	250
Architectural - Porous	775
Other	750

(Amended November 16, 1994; June 5, 1996, January 7, 1998)

8-51-305 Approved Emission Control System: The limits of Section 8-51-301, 302 or 304 shall not apply when emissions to the atmosphere are controlled to an equivalent level by an APCO approved emission control system that has an overall abatement efficiency of at least 85 percent. Where incineration is used to control emissions, at least 90 percent of the organic carbon shall be oxidized to carbon dioxide.

8-51-306 Prohibition of Specification: No person shall require for use or specify the application of an adhesive or sealant product subject to this Rule if such use or application results in a violation of any of the standards of this Rule. The prohibition of specification shall apply to all written or oral contracts under the terms of which any adhesive product is to be applied at any physical location within the District.

8-51-307 Prohibition of Sale: Except as provided in Section 8-51-120, no person shall sell, or offer for sale any adhesive or sealant product that does not meet the VOC limits as specified in Sections 8-51-301, 303, and 304.

(Adopted November 16, 1994, amended January 7, 1998)

8-51-308 Limits for Pressurized Containers: Adhesive and sealant products that are not aerosol adhesives as defined in Section 8-51-204 but are supplied in pressurized containers from which adhesive or sealant is expelled by a propellant are subject to the VOC limits in Sections 8-51-301, 302, and 304 of this Rule.

8-51-320 Solvent Evaporative Loss Minimization: The requirements of this section shall apply to any person using organic solvent for surface preparation and cleanup or to any person mixing, using, or disposing of adhesive or sealant product containing organic solvent.

320.1 A person shall use closed containers for the storage or disposal of cloth or paper used for solvent surface preparation and cleanup.

320.2 A person shall store fresh or spent solvent in closed containers.

320.3 A person shall not use organic compounds for the cleanup of mixing, storage, or spray equipment unless equipment for collecting the cleaning compounds and minimizing their evaporation to the atmosphere is used.

320.4 A person shall not leave containers of adhesive product, sealant product, or thinner open to the atmosphere when not in use.

8-51-400 ADMINISTRATIVE REQUIREMENTS

8-51-401 Date of Manufacture: Containers for all adhesive and sealant products subject to this Rule shall display the date of manufacture of the contents or a code indicating the date of manufacture. If a code is used, the manufacturers of such products shall file with the APCO an explanation of each code.

8-51-402 Labeling Requirement: Each container of adhesive or sealant product subject to this Rule and manufactured after July 1, 1994, shall display the ~~maximum~~ VOC content, as defined in Section 8-51-226, of the adhesive or sealant product as ~~applied~~ supplied. ~~VOC content shall be displayed as grams of VOC per liter, less water, of product, except for aerosol products where VOC shall be displayed as percentage of VOC by weight, and low solids adhesives, sealants and primers where VOC shall be displayed as grams of VOC per liter of product including water.~~

(Amended November 16, 1994)

8-51-403 Deleted January 7, 1998

8-51-404 Deleted November 16, 1994

8-51-500 MONITORING AND RECORDS

8-51-501 Stationary Source, Recordkeeping Requirement: Any person operating a source of adhesive or sealant emissions subject to Regulation 2, Rule 1 shall:

- ~~501.1 Maintain a current list of adhesive or sealant products in use which provides all of the data necessary to evaluate compliance, including VOC content of adhesive or sealant product as applied.~~
- ~~501.2 Record facilitywide usage on a monthly basis that provides the following information, as applicable:~~
- ~~a. Adhesive or sealant product and mix ratio of components in the product used.~~
 - ~~b. Quantity of each adhesive or sealant product applied.~~
 - ~~c. Identification of specialty limit category and/or exemption.~~
- 501.1 Maintain a current list of adhesive or sealant products in use which provides all of the data necessary to evaluate compliance, including the following, as applicable:
- a. Identification of each product by manufacturer, product name, and manufacturer's product number.
 - b. VOC content of each product as supplied.
 - c. Mix ratio of components in the product used, and final VOC content as applied.
 - d. Identification of specialty limit category and/or exemption that applies to each product.
- 501.2 Except as provided in Section 8-51-501.3, record facility-wide usage on a monthly basis for each adhesive or sealant product applied.
- 501.3 For a facility that emits 330 pounds per month or more of total VOC emissions from the use of adhesive and sealant products subject to this Rule, maintain, in addition to the records required by Section 8-51-501.2, daily records of the use, pursuant to Section 8-51-114, of any products that do not comply with the VOC limits in the Rule.
- 501.34 Retain and have such all records available for inspection by the APCO for the previous 24-month period, unless a longer period is specified in an applicable permit.
- ~~501.4 The requirements of Section 8-51-501.1 and 501.2 shall not apply to any person who complies with an alternate recordkeeping plan that meets the following requirements:~~
- ~~a. The plan applies to a facility that uses adhesives or sealants in five or more buildings on the facility site and tracks their distribution and use through a centralized information system which can report the annual total usage for each adhesive and sealant product.~~
 - ~~b. The person has submitted a written petition to the APCO which includes a description of the facility, the facility's centralized information system, the proposed alternative recordkeeping plan, the proposed reporting period, a list of adhesive and sealant products used by the facility, and an estimate of annual usage for each adhesive and sealant product subject to the alternate recordkeeping plan.~~
 - ~~c. The plan has been approved in writing by the APCO after the APCO has determined that, because of the number of workers and work locations involved, complying with Sections 8-51-501.1 and 501.2 would constitute an undue burden.~~
 - ~~d. After approval by the APCO, usage of each adhesive and sealant product for the preceding year was reported annually at the time the facility's permit to operate was renewed, and, where changes were made in the plan, the changes were approved in writing by the APCO.~~
 - ~~e. The person agrees that a violation of Sections 8-51-301, 302, 303, or 304 within a reporting period, as established by the plan, shall be presumed to be a violation for each month of the reporting period up to the month of the violation but that a person may rebut this presumption by presenting evidence, such as usage records, purchase orders, work orders, contracts, or other documents which demonstrate that the violation did not occur in each month of the reporting period.~~

(Amended November 16, 1994; June 5, 1996, January 7, 1998)

8-51-502 Alternative Recordkeeping Requirements: In lieu of meeting the monthly recordkeeping requirements of Sections 8-51-501.2, a person may use an alternative recordkeeping plan under the following circumstances:

- 502.1 The plan is for a government or university research facility that:
- a. For activities not exempt pursuant to Section 8-51-117, uses only adhesives and sealants that comply with the VOC limits in the Rule;
 - b. Uses adhesives or sealants in five or more buildings on the facility site; and
 - c. Tracks their distribution and use through a centralized information system.
- 502.2. The person meets each of the following requirements:
- a. A written petition that includes a description of the facility, a description of the facility's centralized information system, a list of adhesive and sealant products used by the facility, and an estimate of the monthly usage for each adhesive and sealant product shall be submitted to and approved by the APCO prior to implementing the plan.
 - b. The monthly total quantity of each adhesive and sealant product purchased or acquired shall be recorded.
 - c. The annual total usage of each adhesive and sealant product shall be reported at the time the facility's permit to operate is renewed.
- 502.3. A violation of Sections 8-51-301, 302, or 304 within the annual reporting period allowed by Section 8-51-502.2 shall be presumed to be a violation for each day of the reporting period up to the day the violation is discovered, but a person may rebut this presumption by presenting evidence, such as usage records, purchase orders, work orders, contracts, or other documents which demonstrate that the violation did not occur on each day of the reporting period.

8-51-5023 Approved Emission Control System, Recordkeeping Requirement: Any person that installs an approved emission control system, subject to Sections 8-51-305 shall:

- 502.1 Record on a daily basis the amount of adhesive or sealant product, and solvent used.
- 502.2 Record on a daily basis applicable key system operating parameter(s).
- 502.3 Retain and have such records available for inspection by the APCO for the previous 24-month period. (Amended November 16, 1994)

8-51-5034 Burden of Proof: Any facility claiming the low usage exemption pursuant to Sections 8-51-114 or 125, the low VOC product exemption pursuant to Section 8-51-115, or the substrate exemption pursuant to Section 8-51-126 must have information available, such as purchase orders, material safety data sheets, work orders, or contracts, that would allow the APCO to verify eligibility for the exemption.

(Amended January 7, 1998)

8-51-600 MANUAL OF PROCEDURES

8-51-601 Analysis of Samples: The VOC content of adhesive and sealant products shall be analyzed for compliance with the limits specified in Sections 8-51-115, 125, 126, 301, 302, and 304 using Manual of Procedures, Volume III, Method 21 or 22. ~~The VOC content of aerosol adhesive spray products shall be analyzed for compliance with the limits specified in Section 8-51-303 using Manual of Procedures, Volume III, Method 35 or 36.~~ The VOC content of low solids adhesive, sealant products or primers as defined in Section 8-51-234 shall be analyzed using Manual of Procedures, Volume III, Method 31. Samples containing parachlorobenzotrifluoride shall be analyzed using Manual of Procedures, Volume III, Method 41.

(Amended January 19, 1994; June 5, 1996, January 7, 1998))

8-51-602 Determination of Control and Collection Efficiency: The control and capture efficiency of an approved emission control system as referenced in Section 8-51-305 shall be measured by any of the following methods: (1) BAAQMD Manual of Procedures, Volume IV, ST-7, (2) EPA Method 25 or 25A. When either EPA Method 25 or 25 A is used, capture efficiency shall be determined as prescribed in EPA's

Guidelines for Determining Capture Efficiency, dated January 9, 1995. For the purpose of determining abatement device efficiency, any acetone, PCBTF, or VMS shall be included as volatile organic compounds. A source shall be considered in violation if the VOC emissions measured by any of the referenced test methods exceed the standards of this rule.

(Amended November 16, 1994; June 5, 1996, January 7, 1998)

8-51-603 Analysis of Plastic Welding CementsAdhesives: The VOC content of ABS, CPVC, PVC or other plastic cement-welding adhesives shall be analyzed for compliance with the limits specified in Section 8-51-301 using Manual of Procedures, Volume III, Method 40. (Adopted June 5, 1996, amended January 7, 1998)